

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

		Express Mail No.	EL 991956901 US
DECLARATION FOR UTILITY, DESIGN, DIVISIONAL AND CONTINUATION-IN-PART PATENT APPLICATIONS (37 CFR 1.63)		Attorney Docket Number	55025/45276
		First Named Inventor	Megan Ravetz
<input checked="" type="checkbox"/> Declaration Submitted with Initial Filing <input type="checkbox"/> Supplemental Declaration Submitted <input type="checkbox"/> Declaration Submitted for Continuation-In-Part Filing <input checked="" type="checkbox"/> Declaration Submitted for Divisional Filing		COMPLETE IF KNOWN	
		Application Number	To be assigned
		Filing Date	Herewith
		Group Art Unit	To be assigned
		Examiner Name	To be assigned

As a below named inventor, I hereby declare that:

My residence, mailing address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

An improved apparatus for the delivery of precursors in the vapour phase to a plurality of epitaxial reactor sites

(Title of the Invention)

the specification of which

☒ is attached hereto

OR

☐ was filed on (MM/DD/YYYY)

/

as United States Application Number or PCT International

Application Number

and was amended on (MM/DD/YYYY)

(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
GB0002559/ 9929279.9	PCT	7/3/00	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	GB	12/11/99	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 4]

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION — Utility or Design Patent ApplicationDirect all correspondence to: ☒Customer Number
or Bar Code Label

021888

OR ☐ Correspondence address belowName **Kenneth Solomon**Address **Thompson Coburn LLP, One US Bank Plaza, Suite 3500**City **St. Louis**State **MO**ZIP **63101-9928**Country **USA**Telephone **314-552-6297**Fax **314-552-7297**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR :☐ A petition has been filed for this unsigned inventorGiven Name
(first and middle [if any]) **Megan**Family Name
or Surname **Ravelz**Inventor's
Signature *Megan Ravelz*Date **17/12/03**Residence: City **Newton**State
ChesterCountry
United KingdomCitizenship **United Kingdom**Mailing Address **67 Broadway West**City **Newton**State
Chester

ZIP

Country **United Kingdom****NAME OF SECOND INVENTOR :**☐ A petition has been filed for this unsigned inventorGiven Name
(first and middle [if any]) **Graham**Family Name
or Surname **Williams**Inventor's
Signature *G. Williams*Date **17/12/03**Residence: City **Heswall**State **Wirral**Country
United KingdomCitizenship **United Kingdom**Mailing Address **Tinkersdale, Tower Road North**City **Heswall**State **Wirral**ZIP
CH60 6RSCountry **United Kingdom**☒ Additional inventors are being named on the 2 supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto.

[Page 2 of 4]

Please type a plus sign (+) inside this box →



PTO/SB/02A (11-00)

Approved for use through 10/31/2002, OMB 0851-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION

ADDITIONAL INVENTOR(S)
Supplemental Sheet
Page 3 of 4

Name of Additional Joint Inventor, if any:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))

Family Name or Surname

Andrew

Nelson

Inventor's
Signature

Date 7-1-2004

Cowbridge
Residence: CityVale of
Glamorgan
StateUnited Kingdom
CountryUnited Kingdom
Citizenship~~What is your primary~~
Mailing Address

LLANSANNOR HOUSE

Cowbridge
CityVale of
Glamorgan
StateCF71 7RS W
ZIPUnited Kingdom
Country

Name of Additional Joint Inventor, if any:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))

Family Name or Surname

Roy Trevor

Blunt

Inventor's
Signature

Date 7th Jan 2004Cwmbran
Residence: CityGwent
StateUnited Kingdom
CountryUnited Kingdom
Citizenship~~What is your primary~~
Mailing Address

Mailing Address

Cwmbran
CityGwent
StateNP44 8UB
ZIPUnited Kingdom
Country

Name of Additional Joint Inventor, if any:

☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))

Family Name or Surname

Howard

Williams

Inventor's
Signature

Date 7th Jan 2004St. Mellons
Residence: CityCardiff
StateUnited Kingdom
CountryUnited Kingdom
Citizenship


Mailing Address

~~What is your primary~~
Mailing Address

IFFORD FFGAN

St. Mellons
CityCardiff
StateCF3 1AB
ZIPUnited Kingdom
Country

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+) inside this box → 

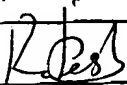
PTO/SB/02A (11-00)

Approved for use through 10/31/2002. OMB 0851-0032

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page <u>4</u> of <u>4</u>
--------------------	---

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Rajesh		Odedra	
Inventor's Signature 		Date <u>12/12/03</u>	
Altrincham Residence: City	Cheshire State	United Kingdom Country	United Kingdom Citizenship
221 Manchester Road Mailing Address			
Altrincham City	Cheshire State	WA14 5NU ZIP	United Kingdom Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	ZIP	Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
Mailing Address			
City	State	ZIP	Country

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

2228311



Express Mail No. EL 991956901 US	Application Number		To be assigned
	Filing Date		Herewith
	First Named Inventor		Megan Ravetz
	Title		An improved apparatus for the delivery of precursors in the vapour phase to a plurality of epitaxial reactor sites
	Group Art Unit		To be assigned
	Examiner Name		To be assigned
	Attorney Docket Number		55025/45276

**POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT**

I hereby appoint:

☒ Practitioners at Customer Number
OR

021888

Place Customer
Number Bar Code
Label Here

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

<input type="checkbox"/> Firm or Individual Name	Kenneth Solomon				
Address	Thompson Coburn LLP				
Address	One US Bank Plaza				
City	St. Louis	State	MO	Zip	63101-9928
Country	USA				
Telephone	314-552-6297	Fax	314-552-7297		

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	Simon Rushworth
Signature	
Date	17/12/03

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Please type a plus sign (+)
inside this box



PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Express Mail No. EL 991956901 US

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

Application Number	To be assigned
Filing Date	Herewith
First Named Inventor	Megan Ravetz
Title	An improved apparatus for the delivery of precursors in the vapour phase to a plurality of expitaxial reactor sites
Group Art Unit	To be assigned
Examiner Name	To be assigned
Attorney Docket Number	55025/45276

I hereby appoint:

☒ Practitioners at Customer Number
OR

021888

Place Customer
Number Bar Code
Label Here

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

☐ Firm or
Individual Name

Kenneth Solomon

Address

Thompson Coburn LLP

Address

One US Bank Plaza

City

St. Louis

State

MO

Zip

63101-9928

Country

USA

Telephone

314-552-6297

Fax

314-552-7297

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name

ANDREW NELSON

Signature

[Handwritten Signature]

Date

19th January 2004.

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ *Total of _____ forms are submitted.

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231